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## (54) COMMUNICATION METHOD AND SYSTEM

(57)Abstract:

PURPOSE: To provide a communication method and a system which are capable of increasing the number of users in a single network or cell.

CONSTITUTION: Data are transmitted by using a combination of CDMA/TDMA or TDMA/CDMA multiplex utilization and a complementary code set (complete orthogonal codes or mutually non-acting codes) is used as a complementary code set. In order to apply this method to an existing or being-planned TDMA system, a CDMA part is added to them and thus, in order to increase the number of the users, spreading coding CDMA multi-access is utilized in all the time slots of a TDMA frame. In order to increase the capacity of the network or the cell, no power control method or multi-access interference cancellation method is at all required.

